

COORDLIST MANUAL

May 12, 2003

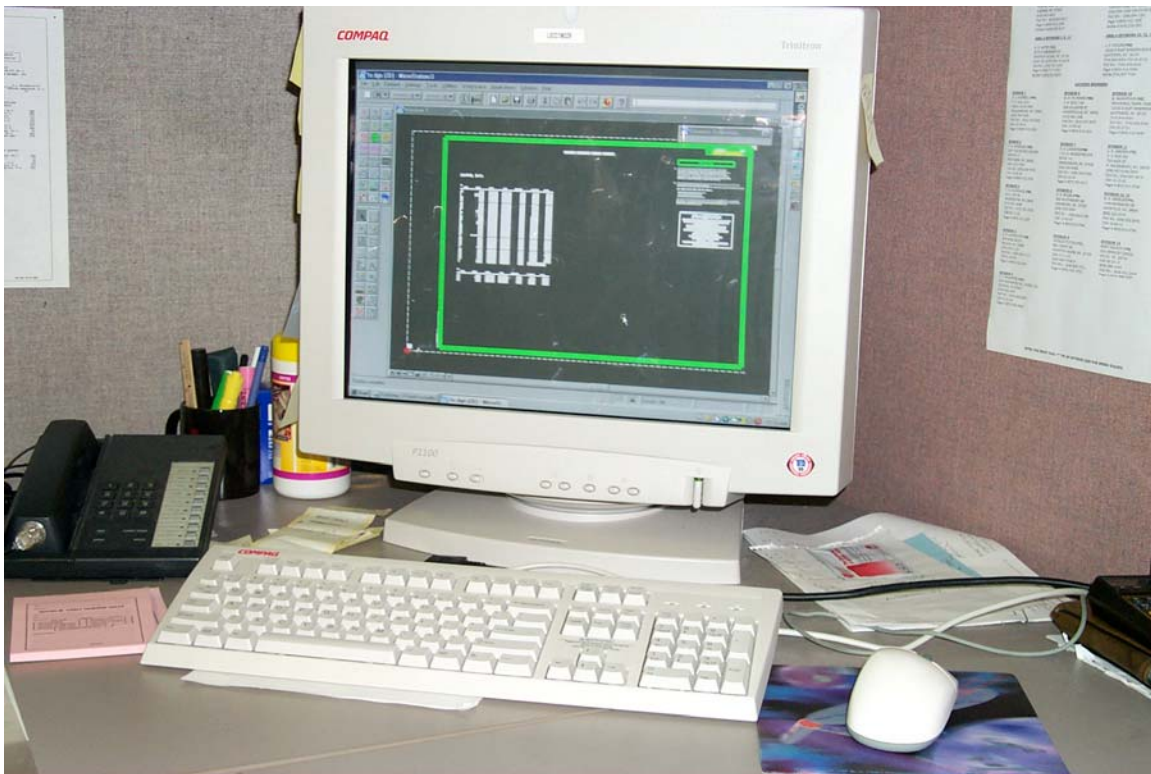


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Coordlist is a ma program and can be accessed through Utilities/ MDL Applications.

Note: Geopak has to be active for this application to run.

In the MDL window, scroll down to Coordlist, select it and click on load to bring up your Coordlist Tool Bar.



The tool bar consists of:

BL- Assists in the creation of a Baseline text File.

Control Symbol- Assists in the creation of a control text file and graphics file. You will need the current design alignments to use this feature.

Power Pole with R. R. Spike- Used to access Benchmark information for either the baseline or control phase.

QC- Used as a Quality Control check on the GPK file. Will check for elevations and descriptions on all points in the GPK file.

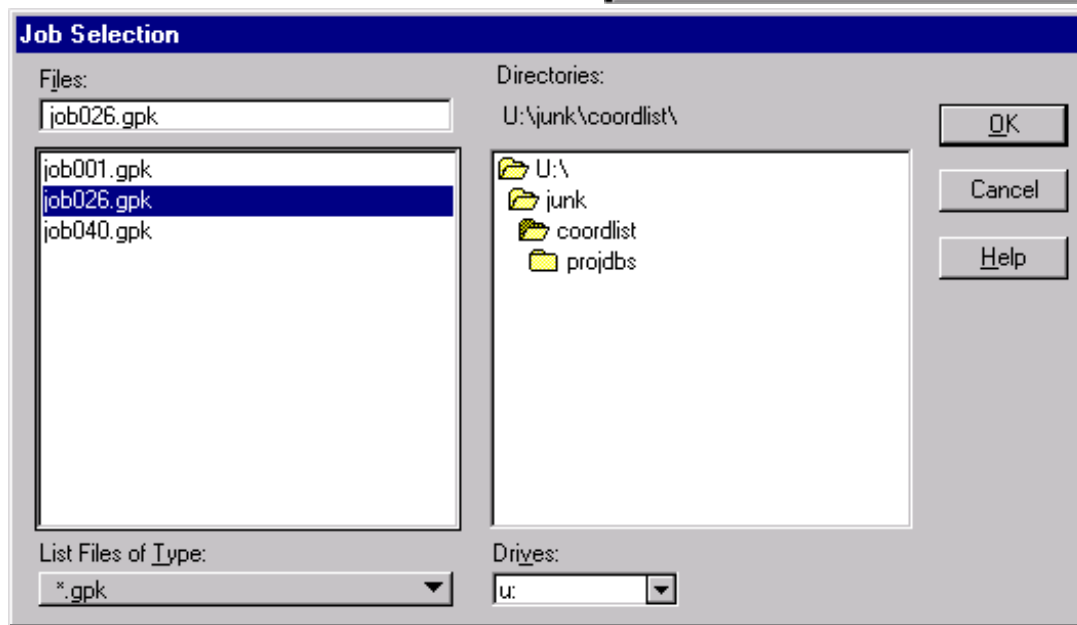
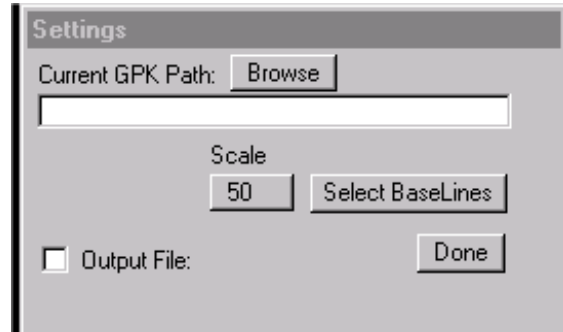
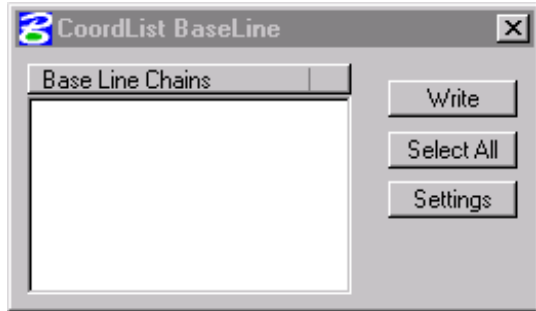
? - Has the version number.

CREATING A BASELINE TEXT FILE

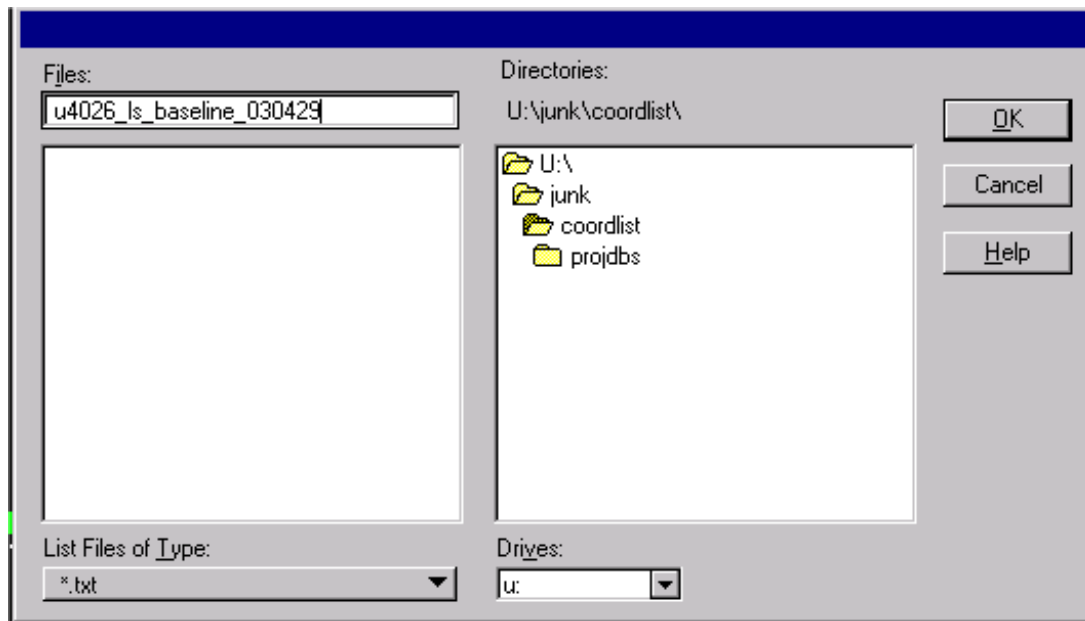
1. Select the BL button.



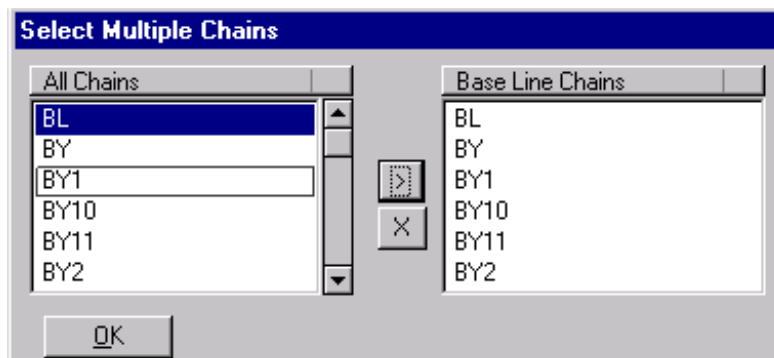
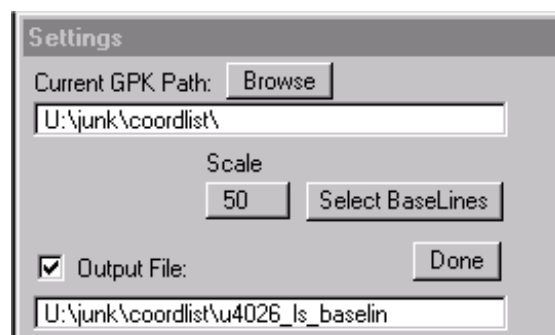
2. Press settings and then browse for the GPK file.



3. Check output box and key in name for BASELINE TEXT FILE.

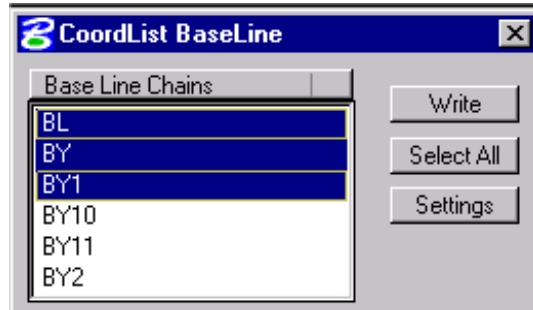


4. Press “SELECT BASELINES” and select the alignments (chains) to be placed in your baseline text file.



5. If a chain is moved to the right window and is not needed, select it and use the X button to remove it.

5. After you are satisfied with your selection, click on the OK in the “SELECT MULTIPLE CHAINS” window. Hit the done button in the “SETTINGS” window.
6. Now select the chains to be written to the text file.



7. Hit the write button.

Note: Do you have a BY alignment higher than BY9 (i.e.: BY10, BY11)?

If no, choose the select all button and then the write button.

If yes, you may want to choose the alignments in-groups and then write to your text file.

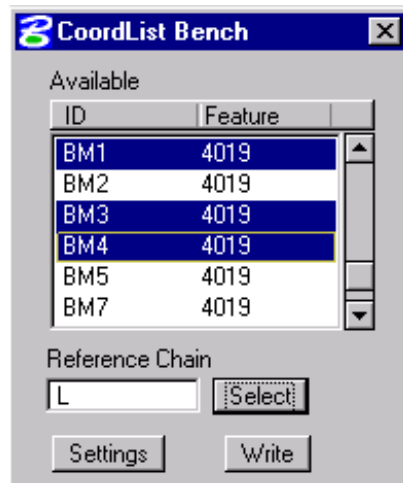
The order of alignments in your text file will show up the same way as you select and write them here.

T-lines (T10, T11) should be considered too.

8. Select the Power Pole with R. R. Spike button.



9. Select the BM's and the chain that they are to reference to.



10. Hit the write button. (The order will need to be considered here too.)
You may want to write one at a time, or by reference chain groups.

The next two pages are an example of the Baseline Text File that this manual has been creating. Note that a header will have to be pasted to the top of this file that is specific to your office. Also, the SR number and road name will need to be added for each alignment, after the chain designation.

The description that we added to the GPK file can be seen here in parenthesis after the point number.

```

Chain BL contains:
101 102 1 2 103 104 105 106 107 108 109 110 111 9 112 3 113 114 115 25 26 116 117 118 119
120 121 10 122 123 124 125 126 127 5 128 129 130 131 132 133 134 7 8
-BL-
=====
101      (BL-101)      N 752041.7920 E 2045235.7820 ELEV  310.51 STA  5+00.00
Course from 101 to 102  N 5° 17' 46.3" W Dist  669.96
102      (BL-102)      N 752708.8890 E 2045173.9420 ELEV  311.89 STA 11+69.96
Course from 102 to 1  N 1° 15' 12.7" E Dist  723.43
1        (GPS U4026-1)  N 753432.1414 E 2045189.7679 ELEV  337.88 STA 18+93.38
                        =BY Sta 12+39.58
Course from 1 to 2  N 11° 37' 12.0" W Dist  983.99
2        (GPS U4026-2)  N 754395.9650 E 2044991.5727 ELEV  365.51 STA 28+77.37
Course from 2 to 103 N 10° 22' 47.1" W Dist  482.44
103      (BL-103)      N 754870.5140 E 2044904.6500 ELEV  370.21 STA 33+59.82
Course from 103 to 104 N 25° 07' 13.4" W Dist  498.72
104      (BL-104)      N 755322.0610 E 2044692.9340 ELEV  374.73 STA 38+58.53
                        =BY1 Sta 10+35.17
Course from 104 to 105 N 38° 02' 19.4" W Dist  997.11
105      (BL-105)      N 756107.3780 E 2044078.5220 ELEV  377.51 STA 48+55.64
Course from 105 to 106 N 34° 12' 04.0" W Dist  566.67
106      (BL-106)      N 756576.0550 E 2043759.9960 ELEV  379.50 STA 54+22.31
                        =BY2 Sta 9+92.09
Course from 106 to 107 N 17° 25' 19.9" W Dist  757.92
107      (BL-107)      N 757299.2080 E 2043533.0660 ELEV  389.87 STA 61+80.24
Course from 107 to 109 N 27° 30' 46.7" W Dist  794.67
109      (BL-109)      N 758004.0090 E 2043165.9670 ELEV  384.05 STA 69+74.91

```


On this page you can see that the BM's will need to be rearranged from BM1, BM3, BM4, BM2 to BM1, BM2, BM3, BM4. Another thing to note is that on BM1 the bench was beyond the end of the alignment and was located with a bearing and distance from Sta 5+00.

The T-Line disclaimer will be placed before the first T-Line written to the file.

```

u4026_ls_baseline_030401.txt - Notepad
File Edit Search Help

                                     =BL Sta  319+69.00

Course from 228 to 229  S 62° 41' 09.4" E  Dist   515.14

229      (BY11-229)      N 778903.6490 E 2041293.1200  ELEV   316.43 STA   15+24.83
=====

Chain BY2 contains:
 208 209
-BY2-
=====
208      (BY2-208)      N 756415.3940 E 2043294.8750  ELEV   364.04 STA    5+00.00

Course from 208 to 209  N 70° 56' 39.1" E  Dist   492.09

209      (BY2-209)      N 756576.0550 E 2043759.9960  ELEV   379.50 STA    9+92.09
                                     =BL Sta  54+22.31
=====

*****
BM1      ELEVATION = 314.88
N 751929      E 2045158
BL STATION 5+00
S 34° 41' 39.7" W Dist   136.99
RR SPIKE IN BASE OF 24" PINE
*****
BM3      ELEVATION = 362.12
N 754956      E 2044299
BL STATION 36+95 512 LEFT
RR SPIKE IN BASE OF 18" PINE
*****
BM4      ELEVATION = 380.90
N 756605      E 2043650
BL STATION 54+83 96 LEFT
RR SPIKE IN BASE OF 15" PINE
*****
BM2      ELEVATION = 329.77
N 753130      E 2045856
BY STATION 19+65 80 RIGHT
RR SPIKE IN BASE OF 24" OAK
*****

Microsoft
Start Exploring - U:\junk\coordist 1e.dgn (2D) - MicroStation/J Microsoft Word - coordist... u4026_ls_baseline_0... 1:32 PM

```

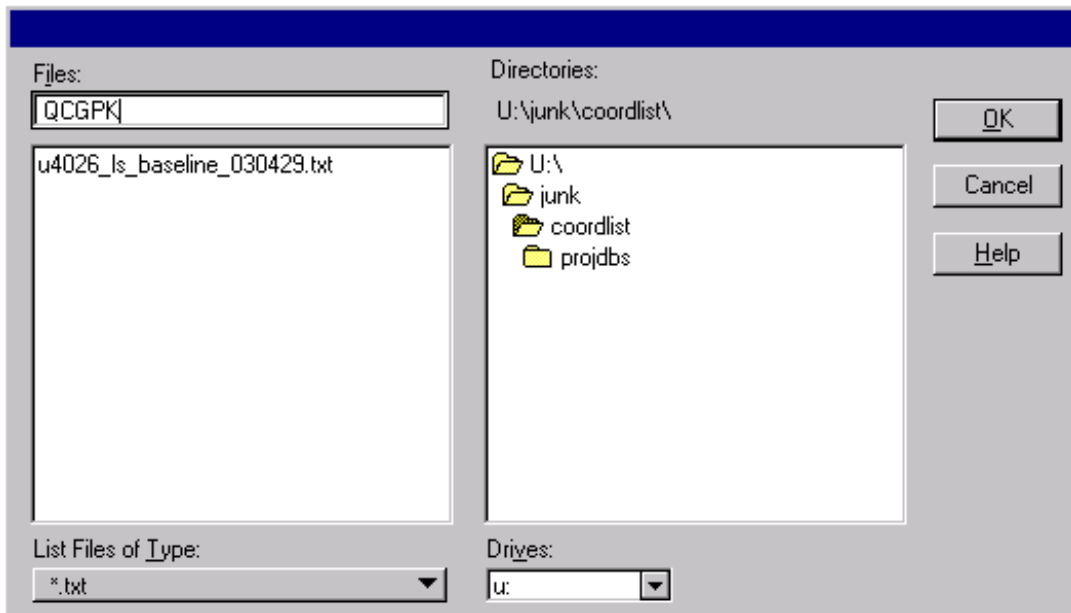
QUALITY CONTROL

Note: The Quality Control option will search your GPK file and look at all points, to verify that each point has a description and elevation. If it finds a point that does not have both of these attributes, it will write the point to the text file and tell you what the error is. It should be noted, that it will list **ALL** points, even if it is a point that you will not need, for the control sheets.

1. Select your GPK file as described on page 4.
2. Select the QC button.

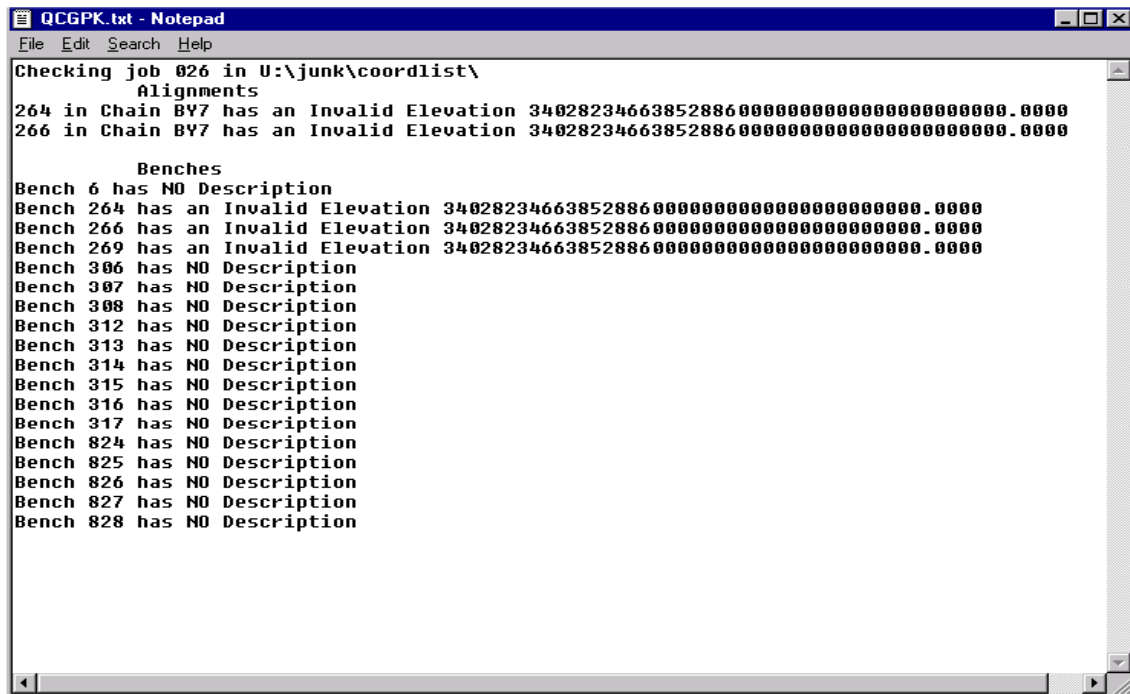


3. Enter a file name to write the omissions to.



4. Hit OK.

5. Review text file for points that are missing an elevation or description.



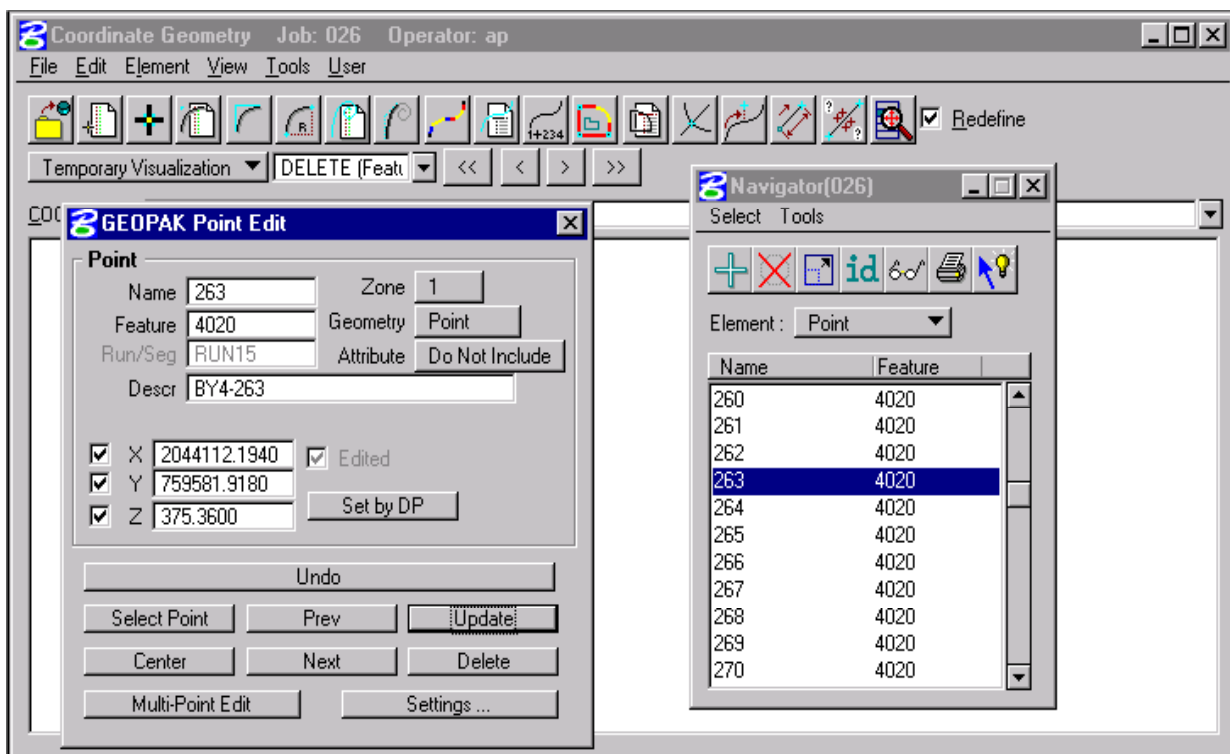
```
QCGPK.txt - Notepad
File Edit Search Help
Checking job 026 in U:\junk\coordlist\
Alignments
264 in Chain BY7 has an Invalid Elevation 3402823466385288600000000000000000.0000
266 in Chain BY7 has an Invalid Elevation 3402823466385288600000000000000000.0000

Bench
Bench 6 has NO Description
Bench 264 has an Invalid Elevation 3402823466385288600000000000000000.0000
Bench 266 has an Invalid Elevation 3402823466385288600000000000000000.0000
Bench 269 has an Invalid Elevation 3402823466385288600000000000000000.0000
Bench 306 has NO Description
Bench 307 has NO Description
Bench 308 has NO Description
Bench 312 has NO Description
Bench 313 has NO Description
Bench 314 has NO Description
Bench 315 has NO Description
Bench 316 has NO Description
Bench 317 has NO Description
Bench 824 has NO Description
Bench 825 has NO Description
Bench 826 has NO Description
Bench 827 has NO Description
Bench 828 has NO Description
```

To edit the points in this text file...

6. Invoke the Project Manager
7. Open your GPK file
8. Check the redefine box
9. Open the Navigator tool box

10. Double click on the first point to be edited.
11. In the Point Edit window fill in the description and/or check the Z box to fill in an elevation as needed.
12. Hit the update button
13. Repeat steps 10 and 11 for any points that need to be edited



After you have edited all of the BL, BY and BM points, you are now ready to create the control data and text file.

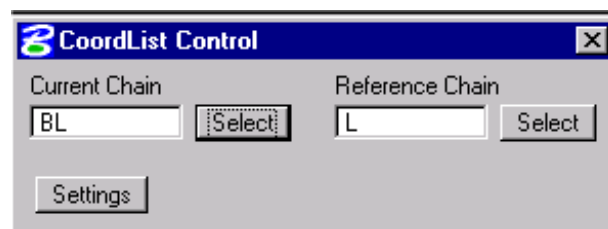
Note: The description can best be placed in the GPK file by typing a double dash and description after the feature code in the field when the point is collected. A second option would be the same process when the RW5 file is edited.

CREATING CONTROL DATA AND A TEXT FILE

1. Select the Control symbol button.



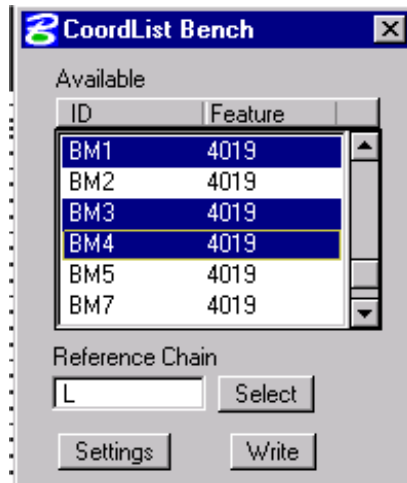
2. Select your GPK file as described on page 4.
3. When you check the output box, key in (tip_ls_control_date.txt)
4. Select current chain (BL or BY)
5. Select a reference chain (L or Y)



6. Data point on your graphic screen and the data will pop in **and** be written to the text file.
7. Repeat steps 4-6 till all of the projects BL and BY's have been placed in the graphic file
8. Select the Power Pole with R. R. Spike.



9. Select a BM
10. Select the design alignment it is to be referenced to.



11. Data point the graphic screen to place the BM and write to the text file.
12. Repeat steps 9-11 till all BM's are placed.

Note: You can place/write one BM at a time or in-groups, along the selected design alignment. Remember, the order you place/write in, will be the order the BM's will show up in the graphics/text file. If you place/write by groups of BM's along one alignment, you will have to cut and paste in the text file to have your BM's in ascending order.